


High-Performance 10-Port Gigabit PoE Switch

PRODUCT OVERVIEW

The 10-Port Gigabit PoE Switch is a high-performance networking solution designed for efficient data transmission and power delivery. Equipped with 8× 10/100/1000Mbps PoE ports and 2× 1G RJ45 uplink ports, it ensures seamless connectivity for IP cameras, VoIP phones, wireless access points, and other PoE-enabled devices.

Fully compliant with IEEE 802.3, 802.3u, and 802.3x standards, this switch supports auto-negotiation, Auto MDI/MDIX, and line-speed switching on all ports. Its flow control mechanism ensures reliable communication—IEEE 802.3x for full-duplex and back pressure for half-duplex modes. Built with a store-and-forward architecture, it enhances data integrity while minimizing latency.

Additional features like VLAN support, mode switching (Default, VLAN, Extend), and LED indicators for real-time monitoring make it ideal for small to medium-sized business networks, surveillance systems, and smart office environments.

| Appearance | Description |
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|  | <ul style="list-style-type: none">8× 1G PoE ports + 2× 1G RJ45 uplink portsIEEE 802.3/802.3u/802.3x standards compliant10/100/1000Mbps auto-adaptive portsIEEE 802.3x full duplex & back pressure half duplex flow controlAuto MDI/MDIX (no need for crossover cables)Store-and-forward switching architectureFull line-speed switching on all ports |

KEY FEATURES AND HIGHLIGHTS

- 8× Gigabit PoE Ports + 2× Gigabit RJ45 Uplink Ports
Provides seamless data and power transmission with flexible uplink options.
- Standards Compliance:
Fully complies with IEEE 802.3, IEEE 802.3u, and IEEE 802.3x standards.
- Auto-Negotiation Ethernet Ports:
Supports 10/100/1000Mbps self-adaptive speed on all ports.
- Reliable Flow Control:
 - Full Duplex: Complies with IEEE 802.3x for smooth data transmission
 - Half Duplex: Uses back pressure for effective flow regulation
- Auto MDI/MDIX Support:
Enables automatic port flipping to eliminate the need for crossover cables.
- Store-and-Forward Switching Architecture:
Ensures data integrity with low latency and efficient packet handling.
- Line-Speed Switching:
All ports support full line-speed switching for optimal performance.
- LED Status Indicators:
Panel LEDs monitor power, link, activity, and help with real-time fault diagnosis.
- Three Operation Modes:
Supports Default, VLAN, and Extend modes for versatile network configuration.

PRODUCT SPECIFICATIONS

Hardware Specifications

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|-----------------------------------|--|
| Item | AP-ESG1910P-2GE-R1 |
| Interface | 8× 1G PoE Ports 2× 1G Uplink RJ45 Ports |
| Port Standards | IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3x (Flow Control) |
| Switching Bandwidth | 20Gbps |
| Packet Forwarding Rate | 14.88 Mpps |
| Packet Buffer | 1 Mbit |
| MAC Address Table | 2K |
| Transmission Method | Store and Forward |
| PoE Standards | IEEE 802.3af (15.4W) IEEE 802.3at (30W) |
| PoE Output Voltage | DC 44–57V |
| PoE Output (Ports 1–8) | <30W per port |
| PoE Power Budget | 110W |
| Surge Protection | ESD: Air 8KV, Contact 6KV (Class B) |
| Operating Temperature | 0°C ~ 40°C |
| Storage Temperature | -40°C ~ 70°C |
| Operating Humidity | 10% ~ 90% (non-condensing) |
| Storage Humidity | 5% ~ 95% (non-condensing) |
| Power Supply | AC 100–240V, 50/60Hz DC 52V, 2.3A |
| Mainboard Power Consumption | 6.5W |
| Structure Information | Product Dimensions: 200 × 118 × 44 mm Packaging Dimensions: 245 × 190 × 60 mm Net Weight: 0.71 kg Gross Weight: 0.99 kg |
| Packing Information | Carton Dimensions: 520 × 320 × 400 mm Packing Quantity: 20 units per carton Total Carton Weight: 20.8 kg |
| Package Contents | 1× Switch 1× Power Cord 1× Manual 1× Certificate of Inspection |
| Fan Quantity | 0 (Fanless design) |
| Installation | Desktop |
| PWR Green LED | On: Powered on Off: Powered off |
| Ports 1–10 (Green LED) | On: 10/100/1000Mbps Link normal Off: Link blocked Flashing: Data transmitting |
| VLAN/Default/Extend Modes Buttons | VLAN Mode: Ports 1–8 isolated; only communicate with Ports 9–10 Default Mode: All ports communicate; 10/100/1000Mbps up to 100m Extend Mode: Ports 7–8 at 10Mbps for up to 250m transmission |

PHYSICAL APPLICATION REFERENCE

